376	PROCESSES OF MANUFACTURING FIBERS, FILAMENTS, OR PREFORMS	405	Utilizing multiple crucibles or multiple feed streams of
377	.With measuring, controlling,		molten glass
377	sensing, programming, timing, indicating, or testing	406	Joining or bonding optical fibers, waveguides, or
378	Optical property		<pre>preforms (e.g., coupling,</pre>
379	Fluid pressure		etc.)
380	Molten material level	407	End to end (i.e., butt end
			joining)
381	Winder or puller movement	408	Side to side
382	Diameter or coating thickness	409	
384	Temperature	409	Having plural adjacent fibers
385	.Process of manufacturing optical fibers, waveguides, or		or rods sheathed (i.e., bundle) in tube or enclosure
	preforms thereof	410	By fusing preformed fibers
386	Planar waveguides		without attenuating stock
			material
387	Forming lens integral with	411	With stretching or drawing
	optical fiber	412	Rod placed inside of tube
388	Nonoxygen halide glass (e.g.,		
	metal halide, etc.)	413	With step of vapor deposition
389	Nonoxygen chalcogenide glass containing	414	Forming optical fiber or fiber preform by soot buildup (i.e.,
200	<u> </u>		vapor axial deposition, VAD)
390	Scandium (Sc), yttrium (Y), or	415	Forming glass layers with
	rare earth doped core or		graded or radially varying
	preform (i.e., atomic numbers		refractive index
	21, 39, 57-72)	416	Consolidation in situ (e.g.,
391	Plasma utilized	410	
392	Laser utilized		sintering, etc.)
393	Hollow optical fibers or	417	Inside of tube or hollow form
333	waveguides		by soot buildup
394		418	Elongated material feed means
	Ion implantation		within tube (e.g., reactant
395	Sol-gel or liquid phase route		feed means place inside of
	utilized		tube, etc.)
396	Sonic or ultrasonic energy	419	With step of collapsing tube
	utilized (e.g., homogenizing,	420	
397	<pre>dispersing, etc.)Fluorine doping</pre>	420	Maintaining isotropic conditions inside of tube
398	Germanium or boron containing	421	Outside of tube or rod by soot
			buildup
399	Incorporating dopant into porous body	422	With dehydration (e.g., OH removal, etc.)
400	Ion exchange utilized	423	Inorganic carbon, metal oxide,
401	Extruding	423	
402	Producing bent, crimped,		or inorganic nitrogen
	twisted, textured, or curled		<pre>containing material deposited (e.g., elemental carbon,</pre>
	optical fibers or waveguides		carbides, nitrides, etc.)
403	Producing noncircular optical	424	Inert, nonoxidizing, or
	fibers or waveguides (e.g.,	424	_
	particular cross section,	405	reducing environment
	etc.)	425	Electromagnetic, magnetic,
404	With step of casting or forming		wave, or particulate energy
404			utilized
	nonfiber workpiece (e.g.,	426	Drying, dehydration, OH removal
	molding liquid preform,		or prevention
	shaping molten glass against a	427	Consolidating preform (e.g.,
	forming surface, etc.)		sintering, etc.)

428	Collapsing tube	454	.Formation of fiber or preform
429	With etching or leaching		utilizing fluid blast (e.g.,
430	With significant coating step		from molten glass, etc.)
431	Free metal or metal alloy	455	During slinging or rotary-
	containing coating		centrifugal fiber distribution
432	Synthetic or natural resin	456	Depositing molten glass on
432		450	
	containing coating		periphery of rotating
433	With cutting or severing		fiberizing means (e.g., disc,
434	With quench cooling (e.g.,		rotor, wheel, etc.)
	forced air or cryogenic	457	Specified composition of
	immersion, etc.)		slinger or rotary-centrifugal
435	With fiber stretching, drawing,		fiber distributor
	or pulling (e.g., from rod,	458	Fluid blast guide, baffle, or
	etc.)		deflector
436	.Plasma utilized	459	Centrifuge with fiberizing
		133	holes
437	.Producing noncircular fibers	460	
	(e.g., particular cross	400	Adjacent combustion chamber,
	section, flat, elliptical,		burner, or blower utilized
	etc.)	461	Having at least two
438	.Producing crimped, twisted, or		concentric burners or blowers
	curled fibers (e.g., textured,	462	Solid fibers comminuted by
	etc.)		fluid blast
439	.Producing hollow fibers or	463	Specified nozzle opening or
	tubular preforms		configuration (e.g., opening
440			size, cross section, etc.)
440	.Sol-gel route or ion exchange	464	
	utilized	404	Fluid discharge skirt or shield
441	.Electromagnetic, magnetic, wave,	4.5-	utilized
	or particulate energy utilized	465	Attenuation by fluid blast
4 4 0	.Composite fiber matrix (e.g.,		
442	.composite liber matrix (e.g.,		contacting glass
442	carbon or metal fiber with	466	contacting glassPlural fluid blasts or jets
442	_	466	
442	carbon or metal fiber with	466 467	Plural fluid blasts or jets contacting single glass stream
442	carbon or metal fiber with glass matrix or vice versa, etc.)		Plural fluid blasts or jets contacting single glass streamFluid blast penetrated
	carbon or metal fiber with glass matrix or vice versa, etc.) .With coating (e.g., lubricant,		<pre>Plural fluid blasts or jets contacting single glass streamFluid blast penetrated transversely by jet (e.g.,</pre>
443	carbon or metal fiber with glass matrix or vice versa, etc.) .With coating (e.g., lubricant, sizing, etc.)	467	<pre>Plural fluid blasts or jets contacting single glass streamFluid blast penetrated transversely by jet (e.g., toration, etc.)</pre>
	carbon or metal fiber with glass matrix or vice versa, etc.) .With coating (e.g., lubricant, sizing, etc.)Glass (i.e., nonoptical fiber,		<pre>Plural fluid blasts or jets contacting single glass streamFluid blast penetrated transversely by jet (e.g., toration, etc.)Flame or combustible fluid</pre>
443 444	<pre>carbon or metal fiber with glass matrix or vice versa, etc.) .With coating (e.g., lubricant, sizing, etc.)Glass (i.e., nonoptical fiber, metal oxide)</pre>	467	 Plural fluid blasts or jets contacting single glass stream Fluid blast penetrated transversely by jet (e.g., toration, etc.) Flame or combustible fluid blast utilized
443 444 445	carbon or metal fiber with glass matrix or vice versa, etc.) .With coating (e.g., lubricant, sizing, etc.)Glass (i.e., nonoptical fiber, metal oxide)Free metal or alloy containing	467	 Plural fluid blasts or jets contacting single glass stream Fluid blast penetrated transversely by jet (e.g., toration, etc.) Flame or combustible fluid blast utilized .By slinging or rotary-
443 444	carbon or metal fiber with glass matrix or vice versa, etc.) .With coating (e.g., lubricant, sizing, etc.)Glass (i.e., nonoptical fiber, metal oxide)Free metal or alloy containingVapor deposition of free metal	467	 Plural fluid blasts or jets contacting single glass stream Fluid blast penetrated transversely by jet (e.g., toration, etc.) Flame or combustible fluid blast utilized .By slinging or rotarycentrifugal fiber distribution
443 444 445	carbon or metal fiber with glass matrix or vice versa, etc.) .With coating (e.g., lubricant, sizing, etc.)Glass (i.e., nonoptical fiber, metal oxide)Free metal or alloy containing	467 468 469	 Plural fluid blasts or jets contacting single glass stream Fluid blast penetrated transversely by jet (e.g., toration, etc.) Flame or combustible fluid blast utilized .By slinging or rotarycentrifugal fiber distribution (i.e., without fluid blast)
443 444 445	carbon or metal fiber with glass matrix or vice versa, etc.) .With coating (e.g., lubricant, sizing, etc.)Glass (i.e., nonoptical fiber, metal oxide)Free metal or alloy containingVapor deposition of free metal	467	 Plural fluid blasts or jets contacting single glass stream Fluid blast penetrated transversely by jet (e.g., toration, etc.) Flame or combustible fluid blast utilized .By slinging or rotarycentrifugal fiber distribution
443 444 445	carbon or metal fiber with glass matrix or vice versa, etc.) .With coating (e.g., lubricant, sizing, etc.)Glass (i.e., nonoptical fiber, metal oxide)Free metal or alloy containingVapor deposition of free metal or free metal containing	467 468 469	 Plural fluid blasts or jets contacting single glass stream Fluid blast penetrated transversely by jet (e.g., toration, etc.) Flame or combustible fluid blast utilized .By slinging or rotarycentrifugal fiber distribution (i.e., without fluid blast)
443 444 445 446	carbon or metal fiber with glass matrix or vice versa, etc.) .With coating (e.g., lubricant, sizing, etc.)Glass (i.e., nonoptical fiber, metal oxide)Free metal or alloy containingVapor deposition of free metal or free metal containing materialSynthetic resin, natural resin,	467 468 469	 Plural fluid blasts or jets contacting single glass stream Fluid blast penetrated transversely by jet (e.g., toration, etc.) Flame or combustible fluid blast utilized .By slinging or rotarycentrifugal fiber distribution (i.e., without fluid blast) Centrifuge with fiberizing
443 444 445 446	carbon or metal fiber with glass matrix or vice versa, etc.) .With coating (e.g., lubricant, sizing, etc.)Glass (i.e., nonoptical fiber, metal oxide)Free metal or alloy containingVapor deposition of free metal or free metal containing materialSynthetic resin, natural resin, or asphalt coating	467 468 469 470	<pre>Plural fluid blasts or jets contacting single glass streamFluid blast penetrated transversely by jet (e.g., toration, etc.)Flame or combustible fluid blast utilized .By slinging or rotary- centrifugal fiber distribution (i.e., without fluid blast)Centrifuge with fiberizing holes .With bushing flood prevention,</pre>
443 444 445 446	carbon or metal fiber with glass matrix or vice versa, etc.) .With coating (e.g., lubricant, sizing, etc.)Glass (i.e., nonoptical fiber, metal oxide)Free metal or alloy containingVapor deposition of free metal or free metal containing materialSynthetic resin, natural resin, or asphalt coatingOrganic silicon containing	467 468 469 470	 Plural fluid blasts or jets contacting single glass stream Fluid blast penetrated transversely by jet (e.g., toration, etc.) Flame or combustible fluid blast utilized .By slinging or rotarycentrifugal fiber distribution (i.e., without fluid blast) Centrifuge with fiberizing holes .With bushing flood prevention, removal, or breakout
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443 444 445 446 447 448 449	carbon or metal fiber with glass matrix or vice versa, etc.) .With coating (e.g., lubricant, sizing, etc.)Glass (i.e., nonoptical fiber, metal oxide)Free metal or alloy containingVapor deposition of free metal or free metal containing materialSynthetic resin, natural resin, or asphalt coatingOrganic silicon containing (e.g., coupling agent, etc.)Asphalt	467 468 469 470	<pre>Plural fluid blasts or jets contacting single glass streamFluid blast penetrated transversely by jet (e.g., toration, etc.)Flame or combustible fluid blast utilized .By slinging or rotary- centrifugal fiber distribution (i.e., without fluid blast)Centrifuge with fiberizing holes .With bushing flood prevention, removal, or breakout prevention .With chemical etching or</pre>
443 444 445 446 447 448	carbon or metal fiber with glass matrix or vice versa, etc.) .With coating (e.g., lubricant, sizing, etc.) Glass (i.e., nonoptical fiber, metal oxide) Free metal or alloy containing Vapor deposition of free metal or free metal containing material Synthetic resin, natural resin, or asphalt coating Organic silicon containing (e.g., coupling agent, etc.) Asphalt Thermosetting or themoplastic	467 468 469 470 471	 Plural fluid blasts or jets contacting single glass stream Fluid blast penetrated transversely by jet (e.g., toration, etc.) Flame or combustible fluid blast utilized .By slinging or rotarycentrifugal fiber distribution (i.e., without fluid blast) Centrifuge with fiberizing holes .With bushing flood prevention, removal, or breakout prevention .With chemical etching or leaching
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443 444 445 446 447 448 449 450	carbon or metal fiber with glass matrix or vice versa, etc.) .With coating (e.g., lubricant, sizing, etc.) Glass (i.e., nonoptical fiber, metal oxide) Free metal or alloy containing Vapor deposition of free metal or free metal containing material Synthetic resin, natural resin, or asphalt coating Organic silicon containing (e.g., coupling agent, etc.) Asphalt Thermosetting or themoplastic resin	467 468 469 470 471 472 473	<pre>Plural fluid blasts or jets contacting single glass streamFluid blast penetrated transversely by jet (e.g., toration, etc.)Flame or combustible fluid blast utilized .By slinging or rotary- centrifugal fiber distribution (i.e., without fluid blast)Centrifuge with fiberizing holes .With bushing flood prevention, removal, or breakout prevention .With chemical etching or leaching .With removal of coating (e.g., desizing, oxidizing coating, etc.)</pre>
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443 444 445 446 447 448 449 450 451 452	carbon or metal fiber with glass matrix or vice versa, etc.) With coating (e.g., lubricant, sizing, etc.) Glass (i.e., nonoptical fiber, metal oxide) Free metal or alloy containing Vapor deposition of free metal or free metal containing material Synthetic resin, natural resin, or asphalt coating Organic silicon containing (e.g., coupling agent, etc.) Asphalt Thermosetting or themoplastic resin Nitrogen or phenol containing With severing	467 468 469 470 471 472 473	<pre>Plural fluid blasts or jets contacting single glass streamFluid blast penetrated transversely by jet (e.g., toration, etc.)Flame or combustible fluid blast utilized .By slinging or rotary- centrifugal fiber distribution (i.e., without fluid blast)Centrifuge with fiberizing holes .With bushing flood prevention, removal, or breakout prevention .With chemical etching or leaching .With removal of coating (e.g., desizing, oxidizing coating, etc.)</pre>
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443 444 445 446 447 448 449 450 451 452	carbon or metal fiber with glass matrix or vice versa, etc.) With coating (e.g., lubricant, sizing, etc.) Glass (i.e., nonoptical fiber, metal oxide) Free metal or alloy containing Vapor deposition of free metal or free metal containing material Synthetic resin, natural resin, or asphalt coating Organic silicon containing (e.g., coupling agent, etc.) Asphalt Thermosetting or themoplastic resin Nitrogen or phenol containing With severing With advancing, gathering, or winding continuous fiber or	467 468 469 470 471 472 473	<pre>Plural fluid blasts or jets contacting single glass streamFluid blast penetrated transversely by jet (e.g., toration, etc.)Flame or combustible fluid blast utilized .By slinging or rotary- centrifugal fiber distribution (i.e., without fluid blast)Centrifuge with fiberizing holes .With bushing flood prevention, removal, or breakout prevention .With chemical etching or leaching .With removal of coating (e.g., desizing, oxidizing coating, etc.) .With purifying or homogenizing molten glass (e.g., removing bubbles, etc.)</pre>
443 444 445 446 447 448 449 450 451 452	carbon or metal fiber with glass matrix or vice versa, etc.) With coating (e.g., lubricant, sizing, etc.) Glass (i.e., nonoptical fiber, metal oxide) Free metal or alloy containing Vapor deposition of free metal or free metal containing material Synthetic resin, natural resin, or asphalt coating Organic silicon containing (e.g., coupling agent, etc.) Asphalt Thermosetting or themoplastic resin Nitrogen or phenol containing With severing With advancing, gathering, or winding continuous fiber or	467 468 469 470 471 472 473	<pre>Plural fluid blasts or jets contacting single glass streamFluid blast penetrated transversely by jet (e.g., toration, etc.)Flame or combustible fluid blast utilized .By slinging or rotary- centrifugal fiber distribution (i.e., without fluid blast)Centrifuge with fiberizing holes .With bushing flood prevention, removal, or breakout prevention .With chemical etching or leaching .With removal of coating (e.g., desizing, oxidizing coating, etc.) .With purifying or homogenizing molten glass (e.g., removing</pre>

476	<pre>By modifying fluid pressure (e.g., vacuum, reduced or superatmospheric pressure,</pre>	501	.With fiber splicing or coupling means (e.g., fusion splicing, end to end, side to side,
477	etc.)	F00	etc.)
477	Drawing fiber from rod	502	.With multiple crucible or
478	Fluid assisted attenuation or	F 0 2	multichamber system
450	directing of fiber or filament	503	.With cleaning means
479	Reeling or winding	504	.With crimping or curling means
480	Cutting or severing	505	.With means to distribute fibers
481	<pre>Cooling of molten glass at forming area (e.g., cooling fins, etc.)</pre>		<pre>across collecting surface (e.g., blower, mechanical distribution means,</pre>
482	.With charging or pretreatment of batch material (e.g., gas	506	reciprocating, oscillating, etc.)
4.0.0	heating, crushing, etc.)		.With assorting means
483	FIBER MAKING APPARATUS	507	.With means for heating newly
484	.With measuring, controlling, sensing, timing, inspecting,	E O O	formed filament, fiber, or preform
405	indicating, or testing means	508	Having means to shape or modify
485	By optical means or of optical property	509	<pre>Electric or electromagnetic heating utilized (e.g.,</pre>
486	Winder or puller movement	E4.0	induction heat, etc.)
	(e.g., drawing sensor, etc.)	510	.With means for cooling newly
487	Having fiber breakout detection, compensation, or		<pre>formed fiber, filament, or preform (e.g., nascent fiber,</pre>
	prevention means		etc.)
488	Temperature	511	With cooling surfaces or fins
489	Fluid pressure	512	Fluid cooling agent circulated
490	<pre>Molten glass level (e.g., sensor, check valve, etc.)</pre>	513	<pre>Gas column (e.g., generally upward gas stream, etc.)</pre>
491	Diameter or coating thickness	514	Liquid stream or spray
492	.With designated composition of dies, bushings, or nozzles	515	.Specified composition of slinger or rotary-centrifugal fiber
493	Platinum group metal containing		forming means
	<pre>(i.e., ruthenium (Ru), rhodium (Rh), osmium (Os), iridium (Ir), palladium (Pd), platinum</pre>	516	<pre>.Rotary-centrifugal fiber forming means (e.g., slinger, rotary disc, no fiberizing holes,</pre>
	(Pt))		etc.)
494	.With means to form hollow fiber or preform	517	Having fluid blast means for contacting glass
495	.With specified bushing, tip, or feeder structure	518	With fluid blast guide, baffle, or deflector
496	Tipless	519	Having means to pass cooling
497	Noncircular tip opening (e.g.,		fluid through apparatus
	elliptical, polygonal, etc.)	520	Depositing glass on periphery
498	<pre>With cooling means for bushing (e.g., orifice plate cooling, etc.)</pre>		of rotating fiber forming means (e.g., disc, rotor, wheel, etc.)
499	With heating means for bushing	521	.Centrifuge with fiberizing holes
500	.With means to align preform with		(e.g., rotor, etc.)
	drawing apparatus or form	522	Having adjacent combustion
	multifilament fibers (e.g., gathering shoe, etc.)		chamber, burner, or blower utilized
	,	523	With at least two concentric blowers or burners

524	.With fluid blast means	25.1	Providing a gaseous layer
525	Having specified nozzle opening		between glass and apparatus
	size or nozzle cross section	25.2	Sheet
526	Having fluid discharge skirt or	25.3	Formed from molten glass
	deflector	25.4	Reshaping
527	Toration means utilized	26	Coating of apparatus
528	Combustion or flame attenuation	27	.Repairing or cleaning of
529	.Having coating or treating means		apparatus; or batch dust
530	Having gas feeding or		prevention or control
	withdrawal means	28	.With glass reclaiming, repairing
531	Having soot forming flame		or crack run interruption
	<pre>hydrolysis burner (e.g., flame oxidation, etc.)</pre>	29.1	.With program, time, or cyclic control
532	With means for recovery, recirculation, or elimination	29.11	Electric computer or data processing system utilized
	of excess gas feed or coating	29.12	.With measuring, sensing,
	material		inspecting, indicating, or
533	.With drawing means		testing
534	Movable furnace or bushing	29.13	Combustion chamber atmosphere
	<pre>(e.g., rotatable, reciprocating, etc.)</pre>	29.14	Diameter, width, or thickness of formed article
535	Pulling wheels or rolls	29.15	Fluid pressure
536	With severing	29.16	Batch or feed material
537	From rod stock	29.17	Level or flow of molten
538	With fluid assisting means		material
539	.With winding means	29.18	Magnetic, electromagnetic, or
540	.With furnace charging means		wave energy utilized (e.g.,
17.1	PROCESSES		light, infrared, ultrasonic,
17.1 17.2	.Sol-gel or liquid phase route	20 10	etc.)
17.2	.Sol-gel or liquid phase route utilized	29.19	etc.)Temperature
	.Sol-gel or liquid phase route utilized .With shaping of particulate	29.21	etc.)TemperatureOf molten glass
17.2	.Sol-gel or liquid phase route utilized.With shaping of particulate material and subsequent fusing		etc.)TemperatureOf molten glass .With chemically reactive
17.2 17.3	.Sol-gel or liquid phase route utilized .With shaping of particulate material and subsequent fusing of particles	29.21 30.1	etc.)TemperatureOf molten glass .With chemically reactive treatment of glass preform
17.2 17.3	.Sol-gel or liquid phase route utilized .With shaping of particulate material and subsequent fusing of particlesIncluding flame or gas contact	29.21	etc.)TemperatureOf molten glass .With chemically reactive treatment of glass preformTo enhance the ability to
17.2 17.3 17.4 17.5	.Sol-gel or liquid phase route utilized .With shaping of particulate material and subsequent fusing of particlesIncluding flame or gas contactEmploying nonoxide additive	29.21 30.1	etc.)TemperatureOf molten glass .With chemically reactive treatment of glass preformTo enhance the ability to darken or change color in
17.2 17.3	.Sol-gel or liquid phase route utilized .With shaping of particulate material and subsequent fusing of particlesIncluding flame or gas contactEmploying nonoxide additiveWith treatment subsequent to	29.21 30.1	etc.)TemperatureOf molten glass .With chemically reactive treatment of glass preformTo enhance the ability to darken or change color in response to radiation exposure
17.2 17.3 17.4 17.5 17.6	.Sol-gel or liquid phase route utilized .With shaping of particulate material and subsequent fusing of particlesIncluding flame or gas contactEmploying nonoxide additiveWith treatment subsequent to fusing	29.21 30.1	etc.)TemperatureOf molten glass .With chemically reactive treatment of glass preformTo enhance the ability to darken or change color in response to radiation exposure (e.g., photochromic)
17.2 17.3 17.4 17.5 17.6	.Sol-gel or liquid phase route utilized .With shaping of particulate material and subsequent fusing of particlesIncluding flame or gas contactEmploying nonoxide additiveWith treatment subsequent to fusing .Slag, utilization	29.21 30.1 30.11	etc.)TemperatureOf molten glass .With chemically reactive treatment of glass preformTo enhance the ability to darken or change color in response to radiation exposure
17.2 17.3 17.4 17.5 17.6	.Sol-gel or liquid phase route utilized .With shaping of particulate material and subsequent fusing of particlesIncluding flame or gas contactEmploying nonoxide additiveWith treatment subsequent to fusing .Slag, utilizationFoaming of slag	29.21 30.1 30.11	etc.)TemperatureOf molten glass .With chemically reactive treatment of glass preformTo enhance the ability to darken or change color in response to radiation exposure (e.g., photochromic)To hydrate the glass
17.2 17.3 17.4 17.5 17.6	.Sol-gel or liquid phase route utilized .With shaping of particulate material and subsequent fusing of particlesIncluding flame or gas contactEmploying nonoxide additiveWith treatment subsequent to fusing .Slag, utilizationFoaming of slag .Self-supporting particle making (e.g., bead, ball, granule,	29.21 30.1 30.11	etc.)TemperatureOf molten glass .With chemically reactive treatment of glass preformTo enhance the ability to darken or change color in response to radiation exposure (e.g., photochromic)To hydrate the glassWith metal ion penetrating into
17.2 17.3 17.4 17.5 17.6	.Sol-gel or liquid phase route utilized .With shaping of particulate material and subsequent fusing of particlesIncluding flame or gas contactEmploying nonoxide additiveWith treatment subsequent to fusing .Slag, utilizationFoaming of slag .Self-supporting particle making	29.21 30.1 30.11 30.12 30.13	etc.)TemperatureOf molten glass .With chemically reactive treatment of glass preformTo enhance the ability to darken or change color in response to radiation exposure (e.g., photochromic)To hydrate the glassWith metal ion penetrating into glass (i.e., ion exchange)To temper or strengthen the
17.2 17.3 17.4 17.5 17.6 19 20 21.1	.Sol-gel or liquid phase route utilized .With shaping of particulate material and subsequent fusing of particles .Including flame or gas contact .Employing nonoxide additive .With treatment subsequent to fusing .Slag, utilizationFoaming of slag .Self-supporting particle making (e.g., bead, ball, granule, etc.) .By molten glass comminutingSpheroidizing or rounding of	29.21 30.1 30.11 30.12 30.13 30.14	etc.)TemperatureOf molten glass .With chemically reactive treatment of glass preformTo enhance the ability to darken or change color in response to radiation exposure (e.g., photochromic)To hydrate the glassWith metal ion penetrating into glass (i.e., ion exchange)To temper or strengthen the glass
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17.2 17.3 17.4 17.5 17.6 19 20 21.1 21.2 21.3 21.4 21.5	.Sol-gel or liquid phase route utilized .With shaping of particulate material and subsequent fusing of particlesIncluding flame or gas contactEmploying nonoxide additiveWith treatment subsequent to fusing .Slag, utilizationFoaming of slag .Self-supporting particle making (e.g., bead, ball, granule, etc.)By molten glass comminutingSpheroidizing or rounding of solid glass particlesHollow or porous particleWith mechanical shaping or subdividing .With pore forming in situ .With destruction or delamination of transitory attached or associated separate material	29.21 30.1 30.11 30.12 30.13 30.14 31 32.1 32.2 32.3	etc.)TemperatureOf molten glass .With chemically reactive treatment of glass preformTo enhance the ability to darken or change color in response to radiation exposure (e.g., photochromic)To hydrate the glassWith metal ion penetrating into glass (i.e., ion exchange)To temper or strengthen the glassBy etching or leaching .Operating under inert or reducing conditionsWith bonding or sealingWith crystallization or photochromism or phase separationWith coatingWith forming glass from molten state, with treatment of

33.1	.Devitrifying glass or vitrifying crystalline glass (e.g.,	48	And bonding to part in same mold cavity
	starting with or forming	49	Bonding to metal formed part
33.2	crystalline glass, etc.)Electromagnetic radiation or	50	Forming and bonding glass sheet to metal part
	resulting heat utilized (e.g., gamma rays, X-rays, atomic	51	\ldots Contacting metal with molten
	particles UV, visible, IR,		glass prior to forming sheet
	actinic, laser, microwave or	52	Forming of plural glass
	radio wave, etc.)	F 2	sheets
33.3	Halogen containing phase (e.g.,	53	Forming plural sheets or
33.3	crystalline or noncrystalline,		sheet-like streams from same
	etc.)	- 4	source
33.4	With coating	54	With reshaping glass preform
33.5	With fusion bonding glass to a		prior to assembly or
33.3	formed part (e.g., devitrified		subsequent to bonding
	seals, glass to metal, etc.)	55	Prior to assembly
33.6		56	With severing, perforating, or
33.0	Glass applied in powdered form (i.e., frit)		breaking of glass
22 7	, ,	57	Relative rotation of work and
33.7	Alumino-silicate containing		heating means
22.0	phase	58	Of parts having opposed facing
33.8	Containing at least 3 percent		areas out of contact (e.g.,
	lithium or lithium oxide		building blocks)
	(e.g., spodumene, eucryptite,	59.1	Of glass to metal part
22 0	petalite, etc.)	59.2	Maintaining cavity in glass
33.9	Forming product or preform from	59.21	Glass applied in powdered
2.4	molten glass		(i.e., frit) form
34	.With sealing off of gas	59.22	Named fusible bonding
2.5	evacuating opening		material employed
35	.With vibrating, oscillating or	59.23	With firing in vacuum, in
0.5	agitating a preform		inert atmosphere, or in pumped
36	.Fusion bonding of glass to a		in gas
0.5	formed part	59.24	Metal part outside of glass
37	Lens making		part
38	With bonding of at least three	59.25	Metal part inserted through
	formed parts		hole or into groove in glass
39	With molding or reshaping of		part
	glass to assume shape of	59.26	Metal part forced through or
	configured lens part during		into softened glass part
4.0	bonding		<pre>(e.g., pinch sealing, etc.)</pre>
40	Dielectric or joule effect	59.27	Metal part coaxial with and
4.4	heating of work		inside of glass part
41	With annealing or tempering of	59.28	Relative movement or
4.0	glass		manipulation of parts during
42	Bonding of subassembly with		or immediately preceding
	subsequent assembly and		fusion
4.0	bonding (formed parts only)	59.3	More than two parts in
43	By or with coating at joint		overlaying series (noncavity)
	interface of a formed part	59.31	Metal part inserted through
	prior to bonding		hole or into groove in glass
44	With embossing or corrugating		part
45	With glass part forming from	59.32	Metal part forced through or
	shapeless molten glass		into softened glass part
46	With blowing to shape glass		(e.g., pinch sealing, etc.)
47	In mold cavity		

59.33	Relative movement or	74	With sequential blowing in
	manipulation of parts during		charged cavity
	or immediately preceding fusion	75	Through orifice in bottom wall of dispenser
59.34	Metal part outside of glass part	76	With additional diverse shaping step
59.35	Metal part coaxial with and	77	
39.33	_		With additional forming step
F 0 4	inside of glass part	78	Diverse
59.4	Metal part outside of glass	79	Press and blow
	part	80	In separate lines
59.5	Glass applied in powdered	81	By differential gas pressure
	(i.e., frit) form	82	Reshaping of hot parison in
59.6	Metal part coaxial with and inside of glass part		mold cavity to form hollow article
59.7	Metal part forced through or	83	With positive cooling of
33.7	into softened glass part	0.5	
	(e.g., pinch sealing, etc.)		product or molten glass at
60.1	.With coating	0.4	forming area
	-	84	By direct gaseous contact
60.2	Plural diverse layers	85	Of glass product
60.3	Organic coating	86	Drawing and simultaneously
60.4	Free metal coating		forming hollow stock from
60.5	Oxide coating		molten glass
60.51	From inorganic metal salt	87	With additional shaping, or
60.52	From organic metal compound		severing, or perforating
60.53	From inorganic oxides or	88	Vertically drawing upwardly
	hydroxides		while applying fluid
60.6	Free carbon containing coating		internally of stock
60.7	Inorganic metal salt containing	89	Forming hollow stock by surface
	coating		filming
60.8	Silicon containing coating	90	Sheet
61	.With wearing away of surface	91	With application of lateral
V T	material (e.g., abrading or grinding)		tension to edge portion of moving sheet
62	.Combined	92	With smoothing subsequent to
63	.Sequentially forming, reheating,	72	sheet formation
03	and working	93	With reshaping or surface
64	Reshaping	33	deformation
65	.Forming and fire polishing or	94	Subsequent to formation
63		95	With annealing or tempering
6.6	product		
66	.Forming product or preform from molten glass	96	Conveying at different rate than speed of formation
67	Converting sheet to hollow	97	With severing or perforating
	<pre>product or hollow product to sheet</pre>	98	Simultaneously forming plural separate sheets
68	Initial forming of hollow	99.1	By or with pouring molten
	product or preform in mold		glass onto forming surface
	cavity	99.2	Utilizing molten metal
69	With annealing or tempering		forming surface
70	With severing of formed	99.3	Maintaining molten metal
	product		temperature
71	Spreading of molten glass by	99.4	Treating or removing
	rotation		impurities in molten metal or
72	With charging of mold cavity		glass
73	By suction from upper surface	99.5	Maintaining or adjusting
, 5	of "pool"	,,,,	sheet width or thickness
	P00+		2-100010011 01 01110111000

99.6	Dr. nonmochanical mana	122	Corresing of moltage glass starter
	By nonmechanical means	133	Severing of molten glass stream
100	Onto moving roll or platen	134.1	.Fining or homogenizing molten
101	Through bite of rolls	124 2	glass
102	.Reshaping or surface deformation of glass preform	134.2	Subatmospheric pressure or vacuum utilized
103	Utilizing heat shield or heat-	134.3	Melt accelerator or color
	sink		modifier utilized (e.g.,
104	With annealing, tempering, or		fining agent, etc.)
	fire-polishing	134.4	Oxygen enriched or nitrogen
105	With severing or perforating		reduced gas utilized (i.e.,
106	Reshaping of planar sheet		modified air)
107	By sagging by gravity on mold surface	134.5	By injecting gas below surface of molten glass
108	Reshaping of tubular preform,	134.6	Exhaust or top gas treated or
	retaining cavity		recycled
109	During rotation	134.7	Rotating furnace or chamber
110	Utilizing vacuum or gas pressure		<pre>utilized (e.g., crucible, etc.)</pre>
111	.Glass preform treating	134.8	By melting toxic or waste
112	With severing or preforating		material
113	By or with flame	134.9	By eliminating gaseous
114	Tempering		inclusions (e.g., bubbles,
115	Differential or localized		etc.)
116	Quenching in liquid bath	135.1	Glass conditioning channel
117	Annealing		section utilized
118	During conveying	135.2	By agitating
119	Annealing by direct contact	135.3	Mechanical stirrers utilized
110	with gaseous heat exchange	135.4	Spiral
	medium	135.6	Electric furnace utilized
120	By flame		(e.g., induction or radiant
121	.Blending of separate molten		heat from electric source,
	glass streams		etc.)
122	.Charging of molten glass into	135.7	With submerged electrodes
	mold cavity	135.8	Melting in separate zone of
123	By gravity and severing		glass furnace
	subsequent to charging mold	135.9	By charging batch material
	cavity	136.1	Preheating batch material
124	By suction	136.2	Directing batch feed to float
125	.Gathering from upper surface of		on molten glass surface
	glass pool	136.3	Burner directed towards batch
126	.Discharging molten glass	126.4	or melt
	downwardly through orifice	136.4	By cooling molten glass
127	With gob shaping or treating	137	.Cooling of molten glass
	subsequent to discharge	138	ELECTRONIC ENVELOPE HEADER,
	through orifice	120	TERMINAL, OR STEM MAKING MEANS
128	With temperature modification	139	.With means inserting wire into
	at orifice	140	glass .By press mold
129	Regulating or arresting of flow	141	MELT DISINTEGRATOR AND SOLIDIFIER
1 2 2	into or out of orifice	T#T	INCLUDING FLUID-MELT CONTACT
130	With or by differential gas		MEANS
1 2 1	pressure	142	PARTICULATE BEAD OR BALL MAKING
131	With segregation prior to		APPARATUS (E.G., PIN HEADING)
120	discharge	143	By rolling means
132	With segregation prior to		, rolling mound
	discharge		

144	MEANS SHAPING PREFORM FROM	176	.Running length
	GRANULAR MATERIAL WITH FUSION	177	.Associated with article mold
	MEANS	178	WITH AGITATOR FOR MOLTEN OR SOFT
145	PLURAL SOURCES FEEDING DIVERSE		GLASS
	GLASS MELTS TO COMMON FORMING	179	.Delivery area associated
	MEANS	180	Orifice associated
146	WITH MEANS TO FEED DIVERSE	181	COMBINED
	MATERIAL TO GLASS WORKING	182.1	WITH FLUID SUPPORT FOR ARTICLE OR
	MEANS		PREFORM
147	.Wire laminating means	182.2	.Gaseous support
148	Sheet rolling means	182.3	.Means for treating or
149	Sandwiching wire between		maintaining molten metal
	opposed glass feeds	182.4	.Including preform width
150	Roll coacting with platen	102.1	maintaining or stretching mean
151	Embedding means on roll	182.5	.Structure or composition of
152	FUSION BONDING MEANS	102.3	lining material or arrangement
153	.Concentric body making (e.g.,		with shell
	vacuum bottle making, etc.)	183	EXTRUSION DIE FORMER WITH
154	.Glass to metal	100	UPSTREAM DISCHARGE ASSISTANT
155	.Electronic device making	184	MEANS CHARGING CONTINUOUS FILM OR
156	.With article molding means	101	STRIP TO SEPARATE AND DISTINCT
157	MEANS PROVIDING SPECIAL		FORMER
	ATMOSPHERE	185	.Into sheet rolling means
158	WITH SIGNAL, INDICATOR,	186	With auxiliary heating or
	INSPECTION MEANS, REGISTER, OR	100	cooling means upstream of
	RECORDER		rolling means
159	WITH APPARATUS SAFETY MEANS	187	MEANS DRAWING TUBE OR ROD STOCK
160	CONTROL RESPONSIVE TO CONDITION		FROM BATH
	SENSING MEANS	188	.Drawing vertically upward
161	.Glass working fluid or treating	189	With product take-down means
	fluid control	190	Means correlating air supply
162	.Temperature or heater control	230	and bait movement
163	.Speed control	191	With internal core or centering
164	.Molten glass dispenser or	-7-	means
101	gatherer control	192	Air injection means extending
165	WITH REJECT CATCHER, DEFLECTOR,	172	through bath
103	OR HOLDER	193	MEANS DRAWING SHEET FROM BATH
166	PERFORATOR FOR ARTICLE OR PREFORM	194	.With annealing or tempering
167	CONVERTIBLE TO DIFFERENT	174	means
107	OPERATION	195	.Means dividing and recombining
168	WITH POSITIVE CLEANING MEANS FOR	100	melt in draw chamber
100	APPARATUS	196	.Vertically upwardly with means
169	WITH MEANS PROVIDING PARTING	100	bending sheet to horizontal
105	MATERIAL	197	With moving endless drawing or
170	WITH APPARATUS LUBRICATING MEANS	101	flattening table
171	WITH REPAIR, ASSEMBLY, OR	198	With coacting roll contacting
1 / 1	DISASSEMBLY MEANS FOR	100	surface of supply bath
	APPARATUS	199	.With width maintaining and/or
172	.To replace worn or damaged parts	100	lateral stretching means
173	.To provide alternately used	200	Stretching means
1,5	parts	200	Adjustable width maintaining
174	WITH MECHANICAL CUTTER, SCORER,	201	means
1 / 1	OR SCRIBER FOR ARTICLE OR	202	Means .With pivoted lip tile
	PREFORM	202	.With auxiliary heating means for
175	.With annealing means	403	draw pot or drawing chamber
-, -	z cii dimica i i i i i i i i i i i i i i i i i i		araw pot or arawing chamber

204	.With cooling means in drawing	240	Plural traveling mold carriers
	chamber	241	With movable intermediate work
205	.With radiant heat reflector in		transfer means
	draw pot or drawing chamber	242	Reciprocating mold bottom
206	.With skimmer	243	PLURAL DISTINCT GLASSWORKING
207	GOB CHARGING MEANS WITH SHAPE		APPARATUS
	IMPARTING RECEPTACLE MEANS	244	.Spaced preform reheating means
208	.With glass treating means		with reshaping means
209	.By fluid pressure discharge	245	.Sheet rolling means
	assistant means	246	.Plural presses
210	.By suction gatherer mounted	247	Plungers sequentially coacting
	above supply		with same mold
211	With means correlating movable	248	With relative rotation between
	pool-closure		plunger and mold during
212	Gatherer moving transversely		withdrawal
	from orbit of traveling mold	249	Plungers oppositely disposed
0.1.0	(i.e., ram type)	250	Plungers oppositely disposed
213	Mold is gatherer	251	Plungers orbiting above
214	Parison mold		orbiting molds
215	With plunger movable relative	252	.Fire-polishing means
	to mold	253	ROLLING MEANS TO FORM SHEET OR
216	With separate, distinct blow		STRIP
	mold	254	.With treating means
217	Diverse molds traveling	255	.With corrugating or surface
	concentric orbits		imprinting means
218	Finish mold pivotally	256	.Roll coacting with planar platen
	mounted below parison's orbit	257	Reciprocating platen
219	With blow means	258	SHEET CASTING AND RECEIVING MEANS
220	Sequentially used, distinct	259	.With pot handling means
	molds	259 260	WITH MEANS ABOVE MOLD TO TAKE-OUT
221	molds .By delivery from tank feeder	260	WITH MEANS ABOVE MOLD TO TAKE-OUT OR TRANSFER PRODUCT
221 222	molds .By delivery from tank feederTo parallel mold tables	260 261	WITH MEANS ABOVE MOLD TO TAKE-OUT OR TRANSFER PRODUCT BLOWING MEANS WITH BLOW MOLD
221 222 223	molds .By delivery from tank feederTo parallel mold tablesWith press means	260 261 262	WITH MEANS ABOVE MOLD TO TAKE-OUT OR TRANSFER PRODUCT BLOWING MEANS WITH BLOW MOLD .With treating means
221 222 223 224	molds .By delivery from tank feederTo parallel mold tablesWith press meansWith diverse molding	260 261 262 263	WITH MEANS ABOVE MOLD TO TAKE-OUT OR TRANSFER PRODUCT BLOWING MEANS WITH BLOW MOLD .With treating means .Combined with vacuum means
221 222 223 224 225	molds .By delivery from tank feederTo parallel mold tablesWith press meansWith diverse moldingWith gob guide means	260 261 262 263 264	WITH MEANS ABOVE MOLD TO TAKE-OUT OR TRANSFER PRODUCT BLOWING MEANS WITH BLOW MOLD .With treating means .Combined with vacuum means .Traveling mold
221 222 223 224 225 226	molds .By delivery from tank feederTo parallel mold tablesWith press meansWith diverse moldingWith gob guide means .With press means	260 261 262 263	WITH MEANS ABOVE MOLD TO TAKE-OUT OR TRANSFER PRODUCT BLOWING MEANS WITH BLOW MOLD .With treating means .Combined with vacuum means .Traveling mold .With means heating and/or
221 222 223 224 225	molds .By delivery from tank feederTo parallel mold tablesWith press meansWith diverse moldingWith gob guide means .With press means DIVERSE DISTINCT GLASSWORKING	260 261 262 263 264 265	WITH MEANS ABOVE MOLD TO TAKE-OUT OR TRANSFER PRODUCT BLOWING MEANS WITH BLOW MOLD .With treating means .Combined with vacuum means .Traveling moldWith means heating and/or cooling apparatus
221 222 223 224 225 226 227	molds .By delivery from tank feederTo parallel mold tablesWith press meansWith diverse moldingWith gob guide means .With press means DIVERSE DISTINCT GLASSWORKING APPARATUS	260 261 262 263 264 265	WITH MEANS ABOVE MOLD TO TAKE-OUT OR TRANSFER PRODUCT BLOWING MEANS WITH BLOW MOLD .With treating means .Combined with vacuum means .Traveling moldWith means heating and/or cooling apparatus .Mold rotary about own axis
221 222 223 224 225 226 227	molds .By delivery from tank feederTo parallel mold tablesWith press meansWith diverse moldingWith gob guide means .With press means DIVERSE DISTINCT GLASSWORKING APPARATUS .Marvering means with blow means	260 261 262 263 264 265	WITH MEANS ABOVE MOLD TO TAKE-OUT OR TRANSFER PRODUCT BLOWING MEANS WITH BLOW MOLD .With treating means .Combined with vacuum means .Traveling moldWith means heating and/or cooling apparatus .Mold rotary about own axis .With means heating and/or
221 222 223 224 225 226 227 228 229	molds .By delivery from tank feederTo parallel mold tablesWith press meansWith diverse moldingWith gob guide means .With press means DIVERSE DISTINCT GLASSWORKING APPARATUS .Marvering means with blow means .Press means with blow means	260 261 262 263 264 265 266 267	WITH MEANS ABOVE MOLD TO TAKE-OUT OR TRANSFER PRODUCT BLOWING MEANS WITH BLOW MOLD .With treating means .Combined with vacuum means .Traveling moldWith means heating and/or cooling apparatus .Mold rotary about own axis .With means heating and/or cooling apparatus
221 222 223 224 225 226 227	molds .By delivery from tank feederTo parallel mold tablesWith press meansWith diverse moldingWith gob guide means .With press means DIVERSE DISTINCT GLASSWORKING APPARATUS .Marvering means with blow means .Press means with blow means .With reheating means	260 261 262 263 264 265	WITH MEANS ABOVE MOLD TO TAKE-OUT OR TRANSFER PRODUCT BLOWING MEANS WITH BLOW MOLD .With treating means .Combined with vacuum means .Traveling mold .With means heating and/or cooling apparatus .Mold rotary about own axis .With means heating and/or cooling apparatus PREFORM RESHAPING MEANS WITH
221 222 223 224 225 226 227 228 229 230	molds .By delivery from tank feederTo parallel mold tablesWith press meansWith diverse moldingWith gob guide means .With press means DIVERSE DISTINCT GLASSWORKING APPARATUS .Marvering means with blow means .Press means with blow means .With reheating means therebetween	260 261 262 263 264 265 266 267	WITH MEANS ABOVE MOLD TO TAKE-OUT OR TRANSFER PRODUCT BLOWING MEANS WITH BLOW MOLD .With treating means .Combined with vacuum means .Traveling mold .With means heating and/or cooling apparatus .Mold rotary about own axis .With means heating and/or cooling apparatus PREFORM RESHAPING MEANS WITH TREATING MEANS
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276	Tubular type preform	312	Mold orbiting about horizontal
277	By resizing mandrel		axis
278	Means supporting and orbiting preform	313	Vertically segmented orbiting mold
279	Preform supported horizontally	314	.Plural motors coaxial with plunger
280	Preform supported vertically	315	.With core drawing means
281	By bending means	316	.With means to rotate plunger
282	By internal forming means	010	during withdrawal
283	By stretching means	317	.Means reciprocating or
284	.Fire-polishing means	01,	oscillating female mold member
285	.To reshape preform by flame	318	.With means varying plunger
203	pressure or gravity		pressure during pressing
286	PREFORM RESHAPING MEANS	319	.With means for heating or
287	Sheet bending mold		cooling apparatus
288	With heat shield or heat sink	320	.Selectively operated plural
289	Including auxiliary movable		plungers
209	sheet support or movable sheet	321	.Plunger penetrating superimposed
	quide means		mold table
290	Movable mold section	322	.With means to adjust plunger
291	Having movable section		stroke
292	.Cylindrical preform	323	PRODUCT OR PARISON CENTERING
293	By threading means		MEANS, OR MOLD AND/OR CORE
294	By expansible mandrel		ALIGNING MEANS
295	By crimping means	324	MOLTEN GLASS DISPENSING MEANS
296	By internal and external		(E.G., FEEDER OR LADLE)
230	forming means	325	.Discharge orifice below melt
297	Both rotary driven		level
298	Rotary internal, stationary	326	With auxiliary heating or
230	external		cooling means
299	By flaring means	327	At orifice
300	MEANS APPLYING PNEUMATIC PRESSURE	328	Plural plunger-type discharge
	INSIDE OF DISCRETE CHARGE		assistants or discharge
	(I.E., BLOW MEANS)		orifices
301	.With selective control means	329	By differential gas pressure
302	ARTICLE FORMING MEANS UTILIZING	330	By reciprocating plunger-type
	MOLD MOTION (E.G., CENTRIFUGAL		discharge assistant
	CASTING)	331	With diverse motion
303	GOB SHAPING OR TREATING MEANS	332	With severing means
	DOWNSTREAM OF GOB SEVERING	333	.Discharge lip with discharge
	MEANS		assistant
304	WITH GOB HANDLING MEANS	334	WITH MOLTEN GLASS CHARGE CUTTING
305	PRESS MOLDING MACHINE		OR SCRAPING MEANS
306	.With product treating means	335	GLASS FURNACE WITH FURNACE
307	.Mold ring or baffle laterally		CHARGING MEANS
	and movably supported	336	GATHERING OR DRAWING POOL TYPE
308	.Plunger coacting with		FURNACE
	successively presented molds	337	.Supplemental heating or heat
309	Relative rotation between		exchange means associated with
	plunger and orbiting mold		pool
310	Independent dies actuated by	338	With deputer, draw ring, or
	common plunger	0.5.5	draw shield
311	Means providing orbiting mold	339	.Separate and distinct means
	with diverse motion		defining pool (e.g., floor-
			supported dam)

340	Movably mounted		
341	Cascadingly connected	FOREIGN	ART COLLECTIONS
342	By bridge		
343	Floating bridge	FOR 000	CLASS-RELATED FOREIGN DOCUMENTS
344	With deputer, draw ring, or		
	draw shield		
345	By suspended baffle		
346	GLASS CONDITIONING CHANNEL	DIGESTS	•
	SECTION	<u> </u>	
347	MELTING POT OR FURNACE WITH	DIG 1	LENS ENVELOPE
	STRUCTURALLY DEFINED DELIVERY	DIG 3	CRACKED GLASS
	OR FINING ZONE	DIG 4	ELECTRIC HEAT
348	PRODUCT COOLING MEANS (E.G.,	DIG 5	FOIL GLASS
	TEMPERING)	DIG 6	GLASS ELECTRODE
349	.With preceding reheater	DIG 8	QUARTZ
350	Plural spaced reheaters	DIG 9	TUBE
351	Plural spaced cooling means	DIG 10	STEMWARE
352	DRAWING BAIT	DIG 11	ENCAPSULATING
353	.With air supply means	DIG 12	REED SWITCH
354	With heating or cooling means	DIG 13	
355	MEANS HEATING OR COOLING	DIG 15	NONOXYGEN CONTAINING CHALOGENIDES
	APPARATUS	DIG 16	Optical filament or fiber
356	.Internally positioned	210 10	treatment with fluorine or
357	MOLD WITH SEPARATING MEANS OR		incorporating fluorine in
	CLAMPING MEANS		final product
358	.Core drawing means		-
359	.With mold support or carrier		
360	Pivoted mold sections		
361	MOLD WITH SUPPORTING OR CARRYING		
	MEANS		
362	PLUNGER		
370.1	ROLLER MEANS FOR GLASSWORKING,		
	TEMPERING, OR ANNEALING		
374.1	APPARATUS MADE OF SPECIAL		
0	MATERIAL		
374.11	.Metal-nonmetal composite		
374.12	.Metallic		
374.13	.Ceramic material		
374.14	.Asbestos containing		
374.15	.Elemental carbon containing		
	(e.g., graphite, charcoal,		
275	etc.)		
375	MISCELLANEOUS		

CROSS-REFERENCE ART COLLECTIONS

900	DRYING, DEHYDRATION, MINIMIZING
	OH GROUPS
901	LIGHTO PHASE REACTION PROCESS